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MINUTES.

Stated Meeting January 1, 1915.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

The decease was announced of Charles Martin Hall, A.M., LL.D., of Niagara Falls, at Daytona, Florida, on December 27, 1914; æt. 51.

Prof. Edwin G. Conklin read an obituary notice of Prof. August Weismann.

Prof. William B. Scott read a paper on "The Isthmus of Panama in its Relation to the Animals of North and South America."

The Judges of the Annual Election of Officers and Councillors, held on this day between the hours of two and five in the afternoon, reported that the following named members were elected to be the Officers for the ensuring year, according to the Laws, Regulations and Ordinances of the Society.

President.

William W. Keen.

Vice-Presidents.

William B. Scott,
Albert A. Michelson,
Edward C. Pickering.

Secretaries.

I. Minis Hays,
Arthur W. Goodspeed,
Amos P. Brown,
Harry F. Keller.

Curators.

Charles L. Doolittle,
William P. Wilson,
Leslie W. Miller.

Treasurer.

Henry La Barre Jayne.

Councillors.

(To serve for three years.)
Henry H. Donaldson,
Theodore W. Richards,
Robert A. Harper,
Edwin G. Conklin.

Special Meeting January 14, 1915.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

Dr. J. C. Bose, of Calcutta, read a paper on "The Control of Nervous Impulse in Plant and Animal."

Stated Meeting February 5, 1915.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

An invitation was received from the University of North Carolina to be represented at the Inauguration of Edward Kidder Graham, as President, at Chapel Hill, on the twenty-first of April.

A letter was received from Prof. Allen C. Thomas presenting his resignation of membership.

The decease was announced of the following members:

Benjamin Sharp, M.D., at Moorehead, N. C., on January 23, 1915; æt. 57.

Cyrus Fogg Brackett, A.B., LL.D., at Princeton on January 29, 1915; æt. 82.

The following papers were read:

"The Surgery of the Civil War as Contrasted with the Surgery of the Present European War," by W. W. Keen, M.D.

"The Antediluvian Patriarchs on a Tablet from Nippur," by George A. Barton, Ph.D., which was discussed by Professor Learned and Mrs. Stevenson.

Stated Meeting March 5, 1915.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

Dr. David Jayne Hill, elected to membership in 1910, subscribed the Laws and was admitted into the Society.

Letters were received:

From the President appointing Prof. W. LeConte Stevens to represent the Society at the inauguration of Edward Kidder Graham, as President of the University of North Carolina.

From Prof. W. LeConte Stevens, accepting the appointment.

The decease of the following members was announced:

Arthur vonAuwers, at Berlin on January 24, 1915.

James Geikie, LL.D., D.C.L., at Edinburgh, on March 2, 1915; æt. 75.

The following papers were read:

"The Swedes, Governor Printz, and the Beginning of Pennsylvania," by Thomas Willing Balch.

"A Missing Chapter in International History," by Hon. David Jayne Hill, which was discussed by Mr. Carson, Prof. Learned, and Mr. Rosengarten.

Stated Meeting April 9, 1915.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

An invitation was received from the Trustees and Faculty of Allegheny College, to be represented at the celebration of the One Hundredth Anniversary of the founding of the College, to be held at Meadville, Pa., in the week beginning the twentieth of June, 1915.

The decease of the following members was announced:

Charles Francis Adams, LL.D., at Washington on March 20, 1915; æt. 80.

Frederick Winslow Taylor, M.E., at Philadelphia on March 21, 1915; æt. 59.

David K. Tuttle, Ph.D., at Philadelphia on April 7, 1915; æt. 79.

Prof. Charles C. Bass read a paper on "Some Important Factors which Influence Asexual Reproduction of Malaria Plasmodia in Man," which was discussed by Dr. Tyson, Dr. Henry Skinner, Dr. McFarland, and Dr. Keen.

Stated General Meeting April 22, 23, and 24, 1915.

Thursday, April 22, 1915.

ALBERT A. MICHELSON, Ph.D., Sc.D., LL.D., F.R.S., Vice-President, in the Chair.

Prof. Eliakim H. Moore, elected to membership in 1905, and Prof. Robert Andrews Millikan, elected to membership in 1914, having subscribed the Laws, were admitted into the Society.

The following papers were read:

"Devices for Facilitating the Analysis of Observations—More Particularly those of the Tides," by Ernest W. Brown, Sc.D., Professor of Mathematics, Yale University.

"On Linear Integral Equations in General Analysis," by Eliakim H. Moore, Ph.D., Sc.D., LL.D., Head of Department of Mathematics, University of Chicago.

"A Direct Solution of Fredholm's Equation with Analytic Kernel," by Preston A. Lambert, Professor of Mathematics, Lehigh University, Bethlehem, Pa.

"The Existence of a Sub-Electron?" by Robert A. Millikan, Ph.D., Professor of Physics, University of Chicago, which was discussed by Prof. Michelson.

"Local Disturbances in a Magnetic Field," by Francis E. Nipher, A.M., LL.D., Professor of Physics, Washington University, St. Louis.

"Explorations over the Surface of Telephonic Diaphragms Vibrating under Simple Impressed Sounds," by A. E. Kennelly, S.D., A.M., Professor of Electrical Engineering, Harvard University and H. O. Taylor, of Cambridge.

"The Hall and Corbino Effects," by Edwin Plimpton Adams, Professor of Physics, Princeton University. (Introduced by Prof. Magie.)

"Spontaneous Generation of Heat in Recently Hardened Steel," by Charles Francis Brush, Ph.D., Sc.D., LL.D., of Cleveland.

"Ruling and Performance of a Ten Inch Diffraction Grating," by A. A. Michelson, Ph.D., Sc.D., LL.D., Head of Department of Physics, University of Chicago.

Friday, April 23.

Morning Session—9.35 o'clock.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

The following papers were read:

"Heredity in Protozoa," by M. H. Jacobs, Ph.D., Assistant Professor of Zoölogy, University of Pennsylvania. (Introduced by Prof. McClung.)

"The Constitution of the Hereditary Material," by T. H. Morgan, Ph.D., Professor of Experimental Zoölogy, Columbia University, New York. (Introduced by Prof. E. G. Conklin.) Discussed by Prof. Conklin.

"The Problem of Adaptation as Illustrated by the Fur Seals of the Pribilof Islands" (illustrated by lantern slides), by George H. Parker, Sc.D., Professor of Zoölogy, Harvard University. Discussed by Professors Conklin and Cattell.

"An Interpretation of Sterility in Hybrids," by Edward M. East, Ph.D., Professor of Experimental Plant Morphology, Harvard University. (Introduced by Prof. Bradley Moore Davis.)

"Heterosis and the Effects of Inbreeding," by George H. Shull, Ph.D., Botanical Investigator, Station for Experimental Evolution, Carnegie Institution. (Introduced by Prof. Bradley M. Davis.)

"The Significance of Sterility in Œnothera," by Bradley M. Davis, Ph.D., Professor of Botany, University of Pennsylvania.

The preceding three papers were discussed by Prof. Parker.

"Morphology and Development of Agaricus rodmani," by George F. Atkinson, Ph.D., Head of Department of Botany, Cornell University.

"The Large-fruited American Oaks," by William Trelease, Sc.D., LL.D., Professor of Botany, University of Illinois, Urbana.

"Relationships of the White Oaks of Eastern North America," by M. V. Cobb. (Introduced by Prof. Trelease.)

"The Present Need in Systematic Botany," by L. H. Bailey, LL.D., late Director of the College of Agriculture, Cornell University.

Afternoon Session—2 o'clock.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

The following papers were read:

"A Convenient Form of Receiver for Fractional Distillations under Diminished Pressure,'" by Marston T. Bogert, LL.D., Professor of Chemistry, Columbia University, New York.

"The Cymene Carboxylic Acids," by J. R. Tuttle and Marston T. Bogert, of Columbia University, New York.

"Syringic Acid and its Derivatives," by E. Plaut and Marston T. Bogert, of Columbia University, New York.

The three preceding papers were discussed by Profs. Keller and Scott.

"The Relation of Ductless Glands to Dentition and Ossification," by William J. Gies, Ph.D., Professor of Biological Chemistry, Columbia University. (Introduced by Prof. Harry F. Keller.)

"Gastro-Intestinal Studies," by Philip B. Hawk, Ph.D., Professor of Physiological Chemistry and Toxicology, Jefferson Medical College, Philadelphia. (Introduced by Dr. W. W. Keen.) Discussed by Prof. Scott.

"On the Rate of Evaporation of Ether from Oils and its Application in Oil-Ether Colonic Anæsthesia," by Charles Baskerville, Ph.D., Professor of Chemistry, College of the

City of New York. (Introduced by Prof. J. P. Remington.) Discussed by Profs. Scott and Remington.

"On Oral Endamebiosis," by Allen J. Smith, M.D., Sc.D., LL.D., Professor of Pathology, University of Pennsylvania. Discussed by Prof. Bogert.

"Certain Factors Conditioning Nervous Responses," by Stewart Paton, M.D., Lecturer in Biology, Princeton University. Discussed by Profs. Donaldson and Scott.

"The Rights and Obligations as to Neutralized Territory," by Charlemagne Tower, LL.D., of Philadelphia.

"Physiographic Features as a Factor in the European War," by Douglas W. Johnson, Ph.D., Associate Professor of Physiography, Columbia University. (Introduced by Mr. Henry G. Bryant.)

"The Pronouns and Verbs in Sumerian," by J. Dyneley Prince, Ph.D., Professor of Semitic Languages, Columbia University, New York. (Read by title.)

"A New Form of Nephelometer," by J. T. W. Marshall, Harriman Research Laboratory, Roosevelt Hospital, New York.

Dr. Stewart Paton a newly-elected member and the Hon. Simeon E. Baldwin, elected to membership in 1910, subscribed the Laws and were admitted into the Society.

Friday Evening—8.15 o'clock.

William Morris Davis, Sc.D., Ph.D., Professor Emeritus of Geology, Harvard University, gave an illustrated lecture, "On New Evidence for Darwin's Theory of Coral Reefs." A statement of the chief results of a Shaler Memorial Voyage across the Pacific in 1914, with Studies of the Fiji Group, New Caledonia, the Loyalty Islands, the New Hebrides, the Great Barrier Reef of Australia and the Society Islands.

Saturday, April 24.

Executive Session—9.30 A.M.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

Pending nominations for membership were read and spoken to.

Dr. L. A. Bauer and Secretary Brown were appointed tellers of election and the Society proceeded to ballot for members.

The tellers reported that the following nominees had been elected to membership:

Residents of the United States.

John J. Abel, M.D., Baltimore, Md.
Edwin Plimpton Adams, Ph.D., Princeton, N. J.
Walter Sydney Adams, Pasadena, Cal.
John Merle Coulter, Ph.D., Chicago, Ill.
Whitman Cross, Ph.D., Washington, D. C.
William J. Gies, M.D., New York City.
Philip Bovier Hawk, Ph.D., Philadelphia.
John Fillmore Hayford, Evanston, Ill.
Emory Richard Johnson, Sc.D., Philadelphia.
John Anthony Miller, Ph.D., Swarthmore, Pa.
Thomas Hunt Morgan, Ph.D., New York.
William Fogg Osgood, Ph.D., Cambridge, Mass.
Raymond Pearl, Ph.D., Orono, Me.
Theobald Smith, M.D., Boston, Mass.
John Zeleny, Ph.D., Minneapolis, Minn.

Morning Session—10 o'clock.

WILLIAM B. SCOTT, Sc.D., LL.D., Vice-President, in the Chair.

The following papers were read:

"Opium in the Bible," by Paul Haupt, Ph.D., Professor of Semitic Languages, Johns Hopkins University, Baltimore.

"Divisions of the Pleistocene of Europe and the Periods of the Entrance of Human Races," by Henry Fairfield Osborn, Sc.D., LL.D., Research Professor of Zoölogy, Columbia University, N. Y.

"The Occurrence of Algæ in Carbonaceous Deposits," by Charles A. Davis, Ph.D., of U. S. Bureau of Mines. (Introduced by Prof. Marston T. Bogert.) Discussed by Profs. Scott and B. M. Davis.

"Additions to the Fauna of the Lower Pliocene Snake Creek Beds, Nebraska," by W. J. Sinclair, Ph.D., Curator of Vertebrate Paleontology, Princeton University. (Introduced by Prof. W. B. Scott.) Discussed by Prof. Scott.

"Tertiary Vertebrate Faunas of the North Coalinga Region of California," by John C. Merriam, Ph.D., Professor of Paleontology and Historical Geology, University of California.

"The Rôle of the Glacial Anticyclone in the Air Circulation of the Globe," by William H. Hobbs, Ph.D., Professor of Geology, University of Michigan.

"Note on the Sun's Temperature," by Henry Norris Russell, Ph.D., Professor of Astronomy, Princeton University.

"Radial Velocities in the Orion Nebula," by Edwin B. Frost, D.Sc., Director of Yerkes Observatory, Williams Bay, Wis. Discussed by Prof. Russell.

"Some Results from the Observation of Eclipsing Variables," by Raymond S. Dugan, Assistant Professor of Astronomy, Princeton University. (Introduced by Prof. H. N. Russell.)

"The Variable Stars TV, TW, and TX Cassiopeiæ," by R. J. McDiarmid, Fellow, Princeton University. (Introduced by Prof. H. N. Russell.)

"The Euler-Laplace Theorem on the Rounding Up of the Orbits of the Heavenly Bodies under the Secular Action of a Resisting Medium," by T. J. J. See, Ph.D., U. S. Naval Observatory, Mare Island, Cal.

"The Work in Atmospheric Electricity aboard the 'Carnegie,'" by L. A. Bauer, Ph.D., D.Sc., Director of the Department of Terrestrial Magnetism of the Carnegie Institution of Washington, and W. F. G. Swann, D.Sc.

"Tammuz and Osiris," by George A. Barton, Ph.D., Prof. of Biblical Literature and Semitic Languages, Bryn Mawr College, which was discussed by Dr. Jastrow.

Afternoon Session— 2 o'clock.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

Dr. John Fillmore Hayford, a newly elected member, subscribed the Laws and was admitted into the Society.

A portrait of Dr. Edgar F. Smith, of Philadelphia, was presented to the Society by Dr. J. H. Penniman on behalf of the donor.

The following papers were read:

"One Dimensional Gases and the Reflection of Molecules from Solid Walls."

"Recent Progress in the Study of the Iodine Resonance Spectra, with a description of a Long Focus Spectroscope of High Power," by Robert Williams Wood, A.B., LL.D., Professor of Experimental Physics, Johns Hopkins University. Discussed by Dr. Brush, Prof. Noyes and Dr. Webster.

Symposium on the Earth: Its Figure, Dimensions and the Constitution of Its Interior

"From the Astronomical Standpoint," by Frank Schlesinger, Ph.D., Director of Allegheny Observatory, Pittsburgh.

"From the Geological Standpoint," by T. C. Chamberlin, Ph.D., LL.D., Head of Department of Geology, University of Chicago.

"From the Seismological Standpoint," by Harry Fielding Reid, Ph.D., Professor of Dynamical Geology and Geography, Johns Hopkins University, Baltimore.

"From the Geophysical Standpoint," by John F. Hayford, Director of College of Engineering, Northwestern University, Evanston, Ill. (Introduced by Prof. Schlesinger.)

These papers were discussed by Professors H. F. Reid, Arthur G. Webster, E. W. Brown, C. L. Doolittle, Frank Schlesinger and W. H. Hobbs.

Stated Meeting May 7, 1915.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

Letters accepting membership were received from:

John J. Abel, M.D., Baltimore, Md.
Edwin Plimpton Adams, Ph.D., Princeton, N. J.
John Merle Coulter, Ph.D., Chicago, Ill.
Whitman Cross, Ph.D., Washington, D. C.
William J. Gies, M.D., New York City.
Philip Bovier Hawk, Ph.D., Philadelphia.
Emory Richard Johnson, Sc.D., Philadelphia.
John Anthony Miller, Ph.D., Swarthmore, Pa.

Thomas Hunt Morgan, Ph.D., New York.
Raymond Pearl, Ph.D., Orono, Me.
Theobald Smith, M.D., Boston, Mass.

An invitation was received from the Johns Hopkins University to be represented at the Inauguration of Frank Johnson Goodnow, as President, on May 20, 1915.

The following papers were read:

"Oil Concentration of Ores," by Howard W. DuBois, M.E. (Introduced by Dr. Harry F. Keller.) Discussed by Mr. Lehman.

"Concretions in Streams Formed by the Agency of the Blue-Green Algæ and Related Plants," by H. Justin Roddy, M.S. (Introduced by the Secertaries.) Discussed by Dr. Harshberger, Mr. Sanders, and Prof. Keller.

"The Conditions of Black Shale Deposition as illustrated by the Kupferschiefer and Lias of Germany," by Charles Schuchert.

Stated Meeting October 1, 1915.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

Professors Philip B. Hawk, Emory R. Johnson, and John Anthony Miller, newly-elected members, subscribed the Laws and were admitted into the Society.

Letters accepting election to membership were received from

Prof. Walter S. Adams.
Prof. John F. Hayford.
Prof. William F. Osgood.
Prof. John Zeleny.

Invitations were received:

From the Secretary of State to participate in the Second Pan-American Scientific Congress to be held under the auspices of the Government of the United States, at the city of Washington from December 27, 1915, to January 8, 1916.

From the Trustees and Faculty of Vassar College, to be represented at the celebration of the Fiftieth Anniversary of the opening of Vassar College during the week beginning October 10, 1915.

The decease of the following members was announced:

Mr. Samuel Dickson, at Philadelphia, on May 28, 1915, æt. 78.

Hon. James T. Mitchell, at Philadelphia, on July 4, 1915, æt. 81.

Mr. Frederick Prime, at Atlantic City, on July 14, 1915, æt. 69.

Sir James A. H. Murray, at Oxford, England, on July 26, 1915, æt. 78.

Prof. Frederick W. Putnam, at Cambridge, Mass., on August 14, 1915, æt. 76.

Mr. John T. Morris, at Bretton Woods, N. H., on August 15, 1915, æt. 67.

Dr. Austin Flint, at New York, on September 22, 1915, æt. 79.

The following papers were read:

"Timber Studies in the Mississippi Bottom Lands," by Henry C. Cowles, Ph.D., of Chicago, which was discussed by Professors Harshberger and Kraemer.

"A Practical Rational Alphabet," by Benjamin Smith Lyman, A.B.

Stated Meeting November 5, 1915.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

Prof. Ulric Dahlgren read a paper on "The Production of Heat by Animals."

Stated Meeting December 3, 1915.

WILLIAM W. KEEN, M.D., LL.D., President, in the Chair.

An invitation was received from the American Association for the Advancement of Science to send one or more delegates to its meeting to be held at Columbus, Ohio, December 27, 1915, to January 1, 1916.

Mr. H. H. Harjes, in accordance with the expressed direction of his father, the late John H. Harjes, of Paris, transmitted to the Society Dr. Franklin's bamboo cane with a horn handle, in the upper hollow chamber of which he was accustomed to carry oil and from it in his walks he dropped oil upon the water to watch its effect upon wind-beaten pools.

The decease was announced of William Brooke Rawle, A.B., at Philadelphia, on November 30, 1915, æt. 72.

The following papers were read:

"Some of the Neuro-retinal Interpretations of Increased Vascular and Increased Intracranial Pressure, being a Clinical Communication," by Dr. George E. deSchweinitz.

"The Geology of Parahyba and Rio Grande do Norte, Brazil," by Ralph H. Soper, communicated by Prof. John C. Branner.

"The Geology of Ceará and Piauhy, Brazil," by H. L. Small, communicated by Prof. John C. Branner.

Dr. W. W. Keen presented the Annual Address of the President.